

Algebra 2: Homework 27

Express in simplest radical form:

1. $\sqrt{136}$

2. $\sqrt{144a^4}$

3. $\sqrt{18x^6y^{10}}$

4. $-5\sqrt{49x^3z^4}$

5. $\sqrt{\frac{8}{49}}$

6. $\sqrt{\frac{9x^4}{x^6b^2}}$

7. Which expression is in simplest form?

(1) $\frac{x}{x^2}$

(3) $\frac{x^2 - 4}{x + 2}$

(2) $\frac{9}{x^2 + 9}$

(4) $\frac{x^2 - 6x + 9}{x^2 - x - 6}$

8. Solve: $\frac{9}{x} + \frac{9}{x-2} = 12$

9. Solve for all values of x : $3|x - 4| + 10 \geq 16$